



```

chain nodes :
  7  8  9 13
ring nodes :
  1  2  3  4  5  6
ring/chain nodes :
  10
chain bonds :
  2-8  4-7  8-9
ring bonds :
  1-2  1-6  2-3  3-4  4-5  5-6
exact/norm bonds :
  1-2  1-6  2-3  3-4  4-5  4-7  5-6  8-9
exact bonds :
  2-8
isolated ring systems :
  containing 1 :

```

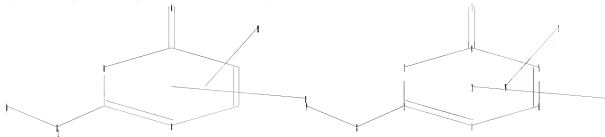
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Match level :
  1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom 10:CLASS 11:CLASS
  13:CLASS 14:CLASS

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=>

Uploading C:\Program Files\Stnexp\Queries\10586501.str



```

chain nodes :
7 8 9 13
ring nodes :
1 2 3 4 5 6
ring/chain nodes :
10
chain bonds :
2-8 4-7 8-9
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 4-7 5-6 8-9
exact bonds :
2-8
isolated ring systems :
containing 1 :

```

Match level :

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1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom 10:CLASS
11:CLASS 13:CLASS 14:CLASS

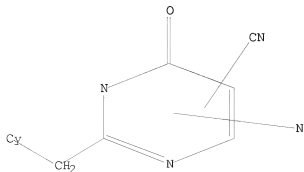
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L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam

SAMPLE SEARCH INITIATED 17:03:55 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 649 TO ITERATE

100.0% PROCESSED 649 ITERATIONS

11 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 11452 TO 14508

PROJECTED ANSWERS: 22 TO 418

L2 11 SEA SSS SAM L1

=> => s l1 sss ful

FULL SEARCH INITIATED 17:06:01 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 12660 TO ITERATE

100.0% PROCESSED 12660 ITERATIONS

214 ANSWERS

SEARCH TIME: 00.00.01

L3 214 SEA SSS FUL L1

=> => s l3

L4 5 L3

=> d l4 1-5 bib,ab,hitr

L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2006:1252758 CAPLUS
 DN 146:45528
 TI Use of cyanopyrimidines for the treatment of cardiovascular diseases and their preparation
 IN Hendrix, Martin; Wunder, Frank; Tersteegen, Adrian; Stasch, Johannes-Peter
 PA Bayer Healthcare A.-G., Germany
 SO PCT Int. Appl., 105pp.
 CODEN: PIXXD2

DT Patent
 LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006125554	A1	20061130	WO 2006-EP4639	20060517
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	DE 102005024494	A1	20061130	DE 2005-102005024494	20050527
	EP 1890702	A1	20080227	EP 2006-742947	20060517
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PRAI	DE 2005-102005024494 A		20050527		
	WO 2006-EP4639	W	20060517		

OS CASREACT 146:45528; MARPAT 146:45528

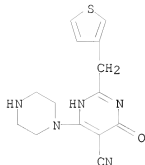
AB The invention relates to the use of cyanopyrimidines of formula I for producing medicaments utilized for the treatment of cardiovascular diseases. Compds. of formula I wherein A is (un)substituted C1-8 alkyl, (un)substituted C3-8 cycloalkyl, (un)substituted tetrahydrofuryl and (un)substituted tetrahydropyranyl; B is (un)substituted Ph and (un)substituted heteroaryl; and their pharmaceutically acceptable salts, solvates, solvated salts thereof are claimed. Example compound II was prepared by substitution of 2-(3,4-dichlorobenzyl)-4-(methylsulfanyl)-6-oxo-1,6-dihydropyrimidine-5-carbonitrile with piperidine. All the invention compds. were evaluated for their phosphodiesterase inhibitory activity. These compds. may be useful in the treatment of cardiovascular diseases.

IT 860813-66-7P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (drug candidate and intermediate; preparation of cyanopyrimidines useful in the treatment of cardiovascular diseases)

RN 860813-66-7 CAPLUS

CN 5-Pyrimidinencarbonitrile, 1,6-dihydro-6-oxo-4-(1-piperazinyl)-2-(3-thienylmethyl)- (CA INDEX NAME)



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	860813-57-6P	860813-58-7P	860813-59-8P
	860813-60-1P	860813-61-2P	860813-62-3P
	860813-63-4P	860813-64-5P	860813-65-6P
	860813-67-8P	860813-68-9P	860813-69-0P
	860813-70-3P	860813-71-4P	860813-72-5P
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	860814-56-8P	860814-57-9P	860814-58-0P
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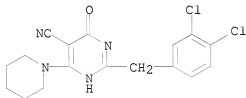
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916220-36-5P	916220-37-6P	916220-38-7P
916220-44-5P		

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of cyanopyrimidines useful in the treatment of cardiovascular diseases)

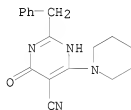
RN 860813-32-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(3,4-dichlorophenyl)methyl]-1,6-dihydro-6-oxo-4-(1-piperidinyl)- (CA INDEX NAME)



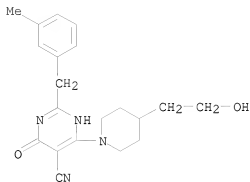
RN 860813-33-8 CAPLUS

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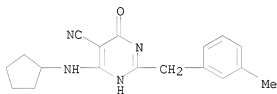
RN 860813-34-9 CAPLUS

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RN 860813-35-0 CAPLUS

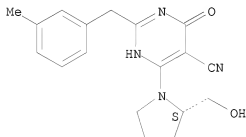
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RN 860813-36-1 CAPLUS

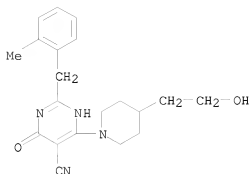
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)

Absolute stereochemistry.



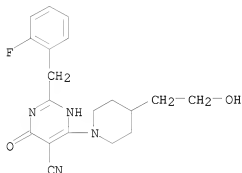
RN 860813-37-2 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[4-(2-hydroxyethyl)-1-piperidinyl]-2-[(2-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



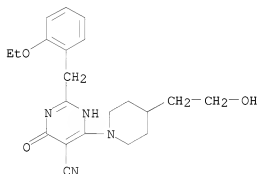
RN 860813-38-3 CAPLUS

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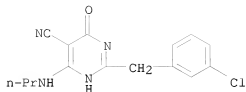
RN 860813-39-4 CAPLUS

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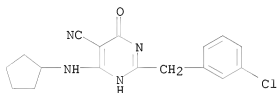
RN 860813-40-7 CAPLUS

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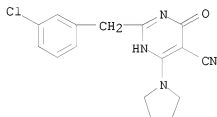
RN 860813-41-8 CAPLUS

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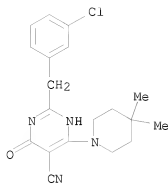
RN 860813-42-9 CAPLUS

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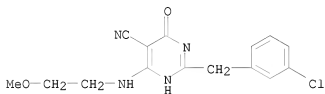
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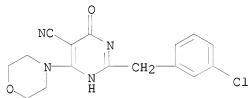
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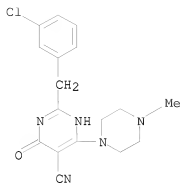
RN 860813-45-2 CAPLUS

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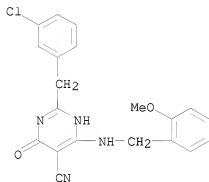
RN 860813-46-3 CAPLUS

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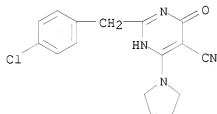
RN 860813-47-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(3-chlorophenyl)methyl]-1,6-dihydro-4-[[2-methoxyphenyl)methyl]amino]-6-oxo- (CA INDEX NAME)



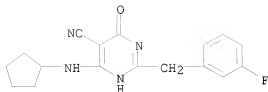
RN 860813-49-6 CAPLUS

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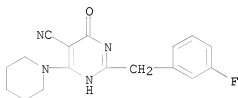
RN 860813-50-9 CAPLUS

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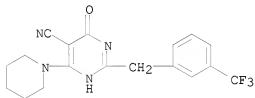
RN 860813-51-0 CAPLUS

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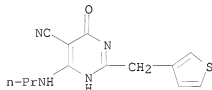
RN 860813-52-1 CAPLUS

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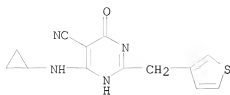
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CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-4-(propylamino)-2-(3-thienylmethyl)- (CA INDEX NAME)



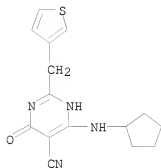
RN 860813-54-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(cyclopropylamino)-1,6-dihydro-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



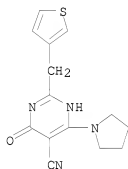
RN 860813-55-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(cyclopentylamino)-1,6-dihydro-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



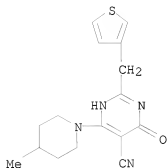
RN 860813-56-5 CAPLUS

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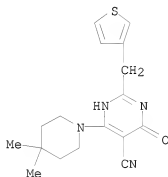
RN 860813-57-6 CAPLUS

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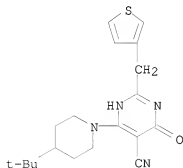
RN 860813-58-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(4,4-dimethyl-1-piperidinyl)-1,6-dihydro-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



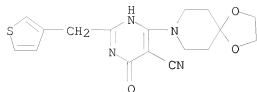
RN 860813-59-8 CAPLUS

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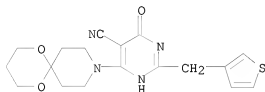
RN 860813-60-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-(4-hydroxy-1-piperidinyl)-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



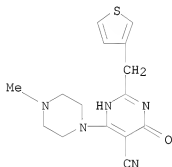
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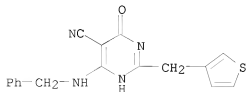
RN 860813-65-6 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-((4-methyl-1-piperazinyl)-6-oxo-2-(3-thienylmethyl))- (CA INDEX NAME)



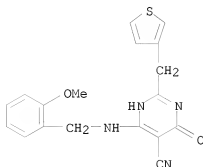
RN 860813-67-8 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-4-[(phenylmethyl)amino]-2-(3-thienylmethyl))- (CA INDEX NAME)



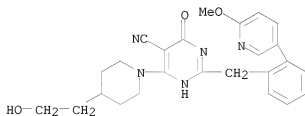
RN 860813-68-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[[2-(2-methoxyphenyl)methyl]amino]-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



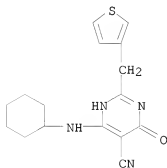
RN 860813-69-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[4-(2-hydroxyethyl)-1-piperidinyl]-2-[2-(6-methoxy-3-pyridinyl)phenyl]methyl]-6-oxo- (CA INDEX NAME)



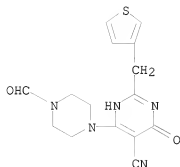
RN 860813-70-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(cyclohexylamino)-1,6-dihydro-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



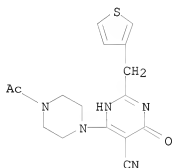
RN 860813-71-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(4-formyl-1-piperazinyl)-1,6-dihydro-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



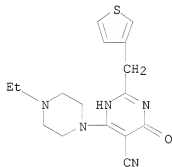
RN 860813-72-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(4-acetyl-1-piperazinyl)-1,6-dihydro-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



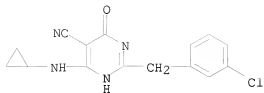
RN 860813-73-6 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(4-ethyl-1-piperazinyl)-1,6-dihydro-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



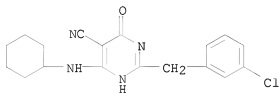
RN 860813-74-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(3-chlorophenyl)methyl]-4-(cyclopropylamino)-1,6-dihydro-6-oxo- (CA INDEX NAME)



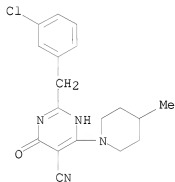
RN 860813-75-8 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(3-chlorophenyl)methyl]-4-(cyclohexylamino)-1,6-dihydro-6-oxo- (CA INDEX NAME)



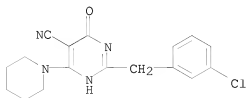
RN 860813-76-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(3-chlorophenyl)methyl]-1,6-dihydro-4-(4-methyl-1-piperidinyl)-6-oxo- (CA INDEX NAME)



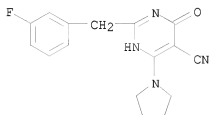
RN 860813-77-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(3-chlorophenyl)methyl]-1,6-dihydro-6-oxo-4-(1-piperidinyl)- (CA INDEX NAME)



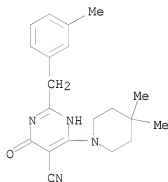
RN 860813-78-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(3-fluorophenyl)methyl]-1,6-dihydro-6-oxo-4-(1-pyrrolidinyl)- (CA INDEX NAME)



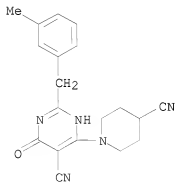
RN 860813-82-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(4,4-dimethyl-1-piperidinyl)-1,6-dihydro-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



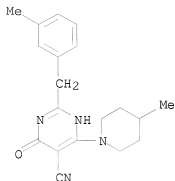
RN 860813-83-8 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(4-cyano-1-piperidinyl)-1,6-dihydro-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



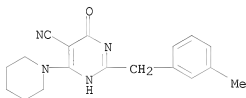
RN 860813-84-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-[(3-methylphenyl)methyl]-4-(4-methyl-1-piperidinyl)-6-oxo- (CA INDEX NAME)



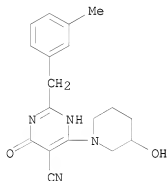
RN 860813-85-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-[(3-methylphenyl)methyl]-6-oxo-4-(1-piperidinyl)- (CA INDEX NAME)



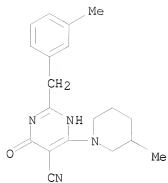
RN 860813-86-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-(3-hydroxy-1-piperidinyl)-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



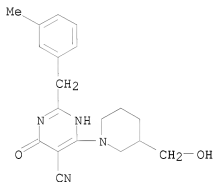
RN 860813-87-2 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-[(3-methylphenyl)methyl]-4-(3-methyl-1-piperidinyl)-6-oxo- (CA INDEX NAME)



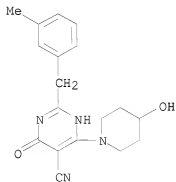
RN 860813-88-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[3-(hydroxymethyl)-1-piperidinyl]-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



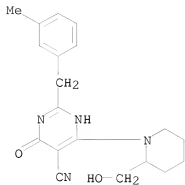
RN 860813-89-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-(4-hydroxy-1-piperidinyl)-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



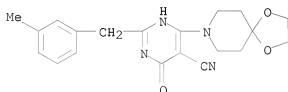
RN 860813-90-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[2-(hydroxymethyl)-1-piperidinyl]-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



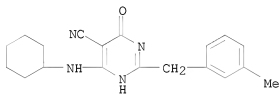
RN 860813-91-8 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-1,6-dihydro-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



RN 860813-92-9 CAPLUS

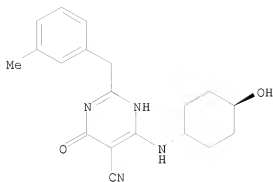
CN 5-Pyrimidinecarbonitrile, 4-(cyclohexylamino)-1,6-dihydro-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



RN 860813-93-0 CAPLUS

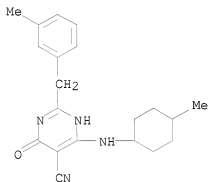
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(trans-4-hydroxycyclohexyl)amino]-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)

Relative stereochemistry.



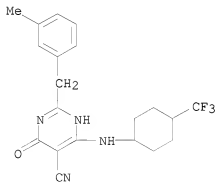
RN 860813-94-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(4-methylcyclohexyl)amino]-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



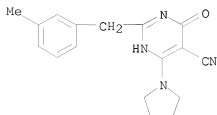
RN 860813-95-2 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-[(3-methylphenyl)methyl]-6-oxo-4-[[4-(trifluoromethyl)cyclohexyl]amino]- (CA INDEX NAME)



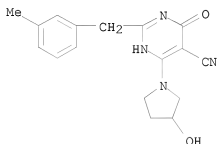
RN 860813-96-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-[(3-methylphenyl)methyl]-6-oxo-4-(1-pyrrolidinyl)- (CA INDEX NAME)



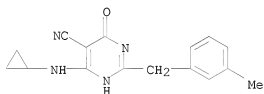
RN 860813-97-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-(3-hydroxy-1-pyrrolidinyl)-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



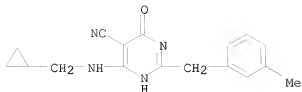
RN 860813-98-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(cyclopropylamino)-1,6-dihydro-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



RN 860813-99-6 CAPLUS

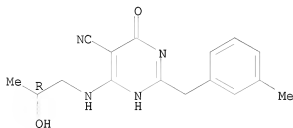
CN 5-Pyrimidinecarbonitrile, 4-[(cyclopropylmethyl)amino]-1,6-dihydro-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



RN 860814-00-2 CAPLUS

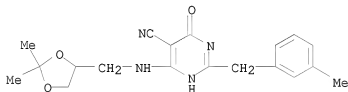
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[[(2R)-2-hydroxypropyl]amino]-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)

Absolute stereochemistry.



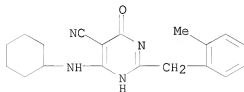
RN 860814-01-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-[[(2,2-dimethyl-1,3-dioxolan-4-yl)methyl]amino]-1,6-dihydro-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



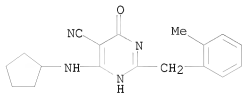
RN 860814-02-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(cyclohexylamino)-1,6-dihydro-2-[(2-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



RN 860814-03-5 CAPLUS

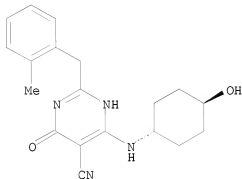
RN 5-Pyrimidinecarbonitrile, 4-(cyclopentylamino)-1,6-dihydro-2-[(2-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



RN 860814-04-6 CAPLUS

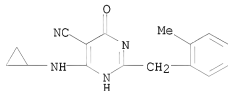
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(trans-4-hydroxycyclohexyl)amino]-2-[(2-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)

Relative stereochemistry.



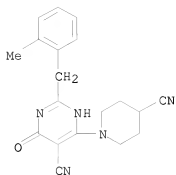
RN 860814-05-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(cyclopropylamino)-1,6-dihydro-2-[(2-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



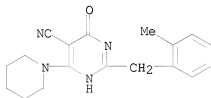
RN 860814-06-8 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(4-cyano-1-piperidinyl)-1,6-dihydro-2-[(2-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



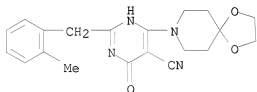
RN 860814-07-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-[(2-methylphenyl)methyl]-6-oxo-4-(1-piperidinyl)- (CA INDEX NAME)



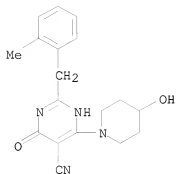
RN 860814-08-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-1,6-dihydro-2-[(2-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



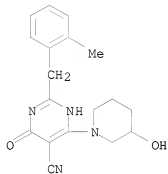
RN 860814-10-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-(4-hydroxy-1-piperidinyl)-2-[(2-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



RN 860814-12-6 CAPLUS

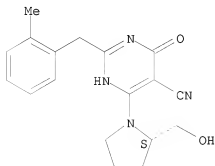
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(3-hydroxy-1-piperidinyl)-2-[(2-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



RN 860814-13-7 CAPLUS

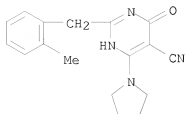
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-2-[(2-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)

Absolute stereochemistry.



RN 860814-14-8 CAPLUS

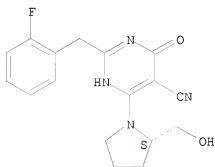
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-[(2-methylphenyl)methyl]-6-oxo-4-(1-pyrrolidinyl)- (CA INDEX NAME)



RN 860814-15-9 CAPLUS

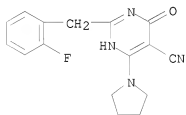
CN 5-Pyrimidinecarbonitrile, 2-[(2-fluorophenyl)methyl]-1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-6-oxo- (CA INDEX NAME)

Absolute stereochemistry.



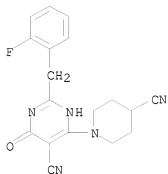
RN 860814-16-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(2-fluorophenyl)methyl]-1,6-dihydro-6-oxo-4-(1-pyrrolidinyl)- (CA INDEX NAME)



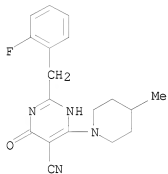
RN 860814-17-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(4-cyano-1-piperidiny)-2-[(2-fluorophenyl)methyl]-1,6-dihydro-6-oxo- (CA INDEX NAME)



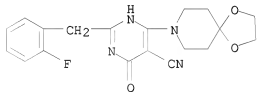
RN 860814-18-2 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(2-fluorophenyl)methyl]-1,6-dihydro-4-(4-methyl-1-piperidiny)-6-oxo- (CA INDEX NAME)



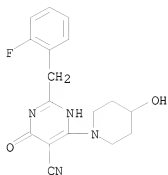
RN 860814-19-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-2-[(2-fluorophenyl)methyl]-1,6-dihydro-6-oxo- (CA INDEX NAME)



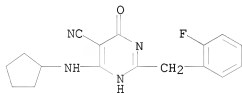
RN 860814-20-6 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(2-fluorophenyl)methyl]-1,6-dihydro-4-(4-hydroxy-1-piperidiny)-6-oxo- (CA INDEX NAME)



RN 860814-21-7 CAPLUS

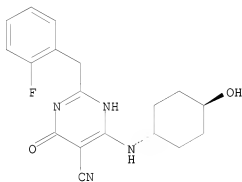
CN 5-Pyrimidinecarbonitrile, 4-(cyclopentylamino)-2-[(2-fluorophenyl)methyl]-1,6-dihydro-6-oxo- (CA INDEX NAME)



RN 860814-22-8 CAPLUS

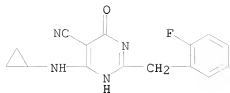
CN 5-Pyrimidinecarbonitrile, 2-[(2-fluorophenyl)methyl]-1,6-dihydro-4-[(trans-4-hydroxycyclohexyl)amino]-6-oxo- (CA INDEX NAME)

Relative stereochemistry.



RN 860814-23-9 CAPLUS

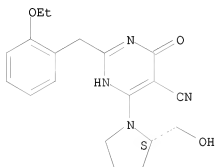
CN 5-Pyrimidinecarbonitrile, 4-(cyclopropylamino)-2-[(2-fluorophenyl)methyl]-1,6-dihydro-6-oxo- (CA INDEX NAME)



RN 860814-24-0 CAPLUS

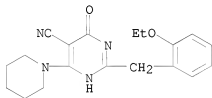
CN 5-Pyrimidinecarbonitrile, 2-[(2-ethoxyphenyl)methyl]-1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-6-oxo- (CA INDEX NAME)

Absolute stereochemistry.



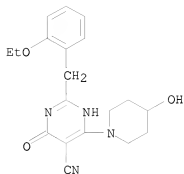
RN 860814-25-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(2-ethoxyphenyl)methyl]-1,6-dihydro-6-oxo-4-(1-piperidinyl)- (CA INDEX NAME)



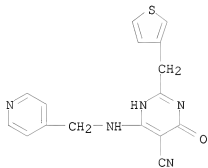
RN 860814-26-2 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(2-ethoxyphenyl)methyl]-1,6-dihydro-4-(4-hydroxy-1-piperidinyl)-6-oxo- (CA INDEX NAME)



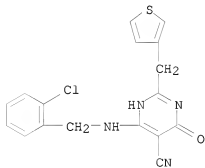
RN 860814-27-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-4-[(4-pyridinylmethyl)amino]-2-(3-thienylmethyl)- (CA INDEX NAME)



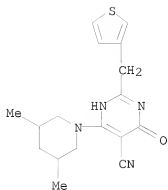
RN 860814-28-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-[[(2-chlorophenyl)methyl]amino]-1,6-dihydro-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



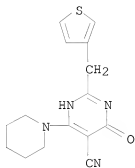
RN 860814-29-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(3,5-dimethyl-1-piperidinyl)-1,6-dihydro-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



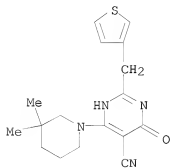
RN 860814-30-8 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-4-(1-piperidinyl)-2-(3-thienylmethyl)- (CA INDEX NAME)



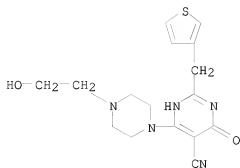
RN 860814-31-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(3,3-dimethyl-1-piperidinyl)-1,6-dihydro-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



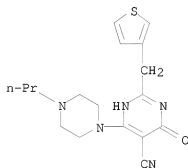
RN 860814-32-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[4-(2-hydroxyethyl)-1-piperazinyl]-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



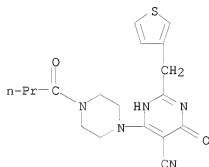
RN 860814-33-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-4-(4-propyl-1-piperazinyl)-2-(3-thienylmethyl)- (CA INDEX NAME)



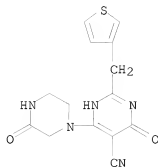
RN 860814-34-2 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-4-[4-(1-oxobutyl)-1-piperazinyl]-2-(3-thienylmethyl)- (CA INDEX NAME)



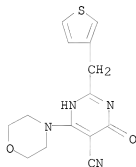
RN 860814-35-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-4-(3-oxo-1-piperazinyl)-2-(3-thienylmethyl)- (CA INDEX NAME)



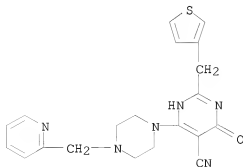
RN 860814-36-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-(4-morpholinyl)-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



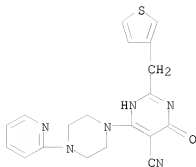
RN 860814-37-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-4-[4-(2-pyridinylmethyl)-1-piperazinyl]-2-(3-thienylmethyl)- (CA INDEX NAME)



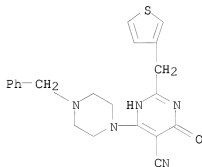
RN 860814-38-6 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-4-[4-(2-pyridinyl)-1-piperazinyl]-2-(3-thienylmethyl)- (CA INDEX NAME)



RN 860814-39-7 CAPLUS

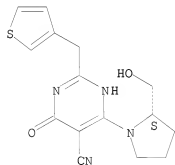
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-4-[(4-(phenylmethyl)-1-piperazinyl)-2-(3-thienylmethyl)]- (CA INDEX NAME)



RN 860814-40-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)

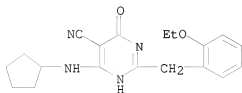
Absolute stereochemistry.



RN 860814-41-1 CAPLUS

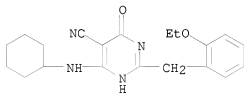
CN 5-Pyrimidinecarbonitrile, 4-(cyclopentylamino)-2-[(2-ethoxyphenyl)methyl]-

1,6-dihydro-6-oxo- (CA INDEX NAME)



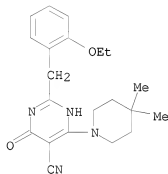
RN 860814-42-2 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(cyclohexylamino)-2-[(2-ethoxyphenyl)methyl]-1,6-dihydro-6-oxo- (CA INDEX NAME)



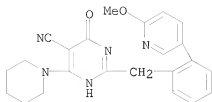
RN 860814-43-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(4,4-dimethyl-1-piperidinyl)-2-[(2-ethoxyphenyl)methyl]-1,6-dihydro-6-oxo- (CA INDEX NAME)



RN 860814-44-4 CAPLUS

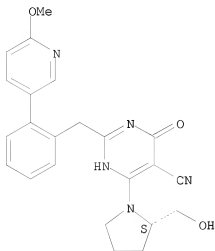
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-[[2-(6-methoxy-3-pyridinyl)phenyl)methyl]-6-oxo-4-(1-piperidinyl)- (CA INDEX NAME)



RN 860814-45-5 CAPLUS

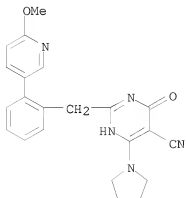
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-2-[[2-(6-methoxy-3-pyridinyl)phenyl]methyl]-6-oxo- (CA INDEX NAME)

Absolute stereochemistry.

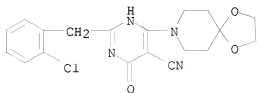


RN 860814-46-6 CAPLUS

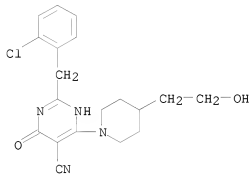
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-[[2-(6-methoxy-3-pyridinyl)phenyl]methyl]-6-oxo-4-(1-pyrrolidinyl)- (CA INDEX NAME)



RN 860814-47-7 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 2-[(2-chlorophenyl)methyl]-4-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-1,6-dihydro-6-oxo- (CA INDEX NAME)

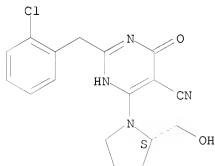


RN 860814-48-8 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 2-[(2-chlorophenyl)methyl]-1,6-dihydro-4-[4-(2-hydroxyethyl)-1-piperidinyl]-6-oxo- (CA INDEX NAME)

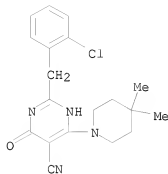


RN 860814-49-9 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 2-[(2-chlorophenyl)methyl]-1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-6-oxo- (CA INDEX NAME)

Absolute stereochemistry.

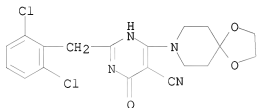


RN 860814-50-2 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 2-[(2-chlorophenyl)methyl]-4-(4,4-dimethyl-1-piperidinyl)-1,6-dihydro-6-oxo- (CA INDEX NAME)



RN 860814-51-3 CAPLUS

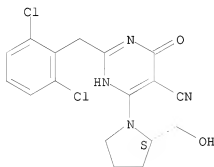
CN 5-Pyrimidinecarbonitrile, 2-[(2,6-dichlorophenyl)methyl]-4-(1,4-dioxaspiro[4.5]dec-8-yl)-1,6-dihydro-6-oxo- (CA INDEX NAME)



RN 860814-52-4 CAPLUS

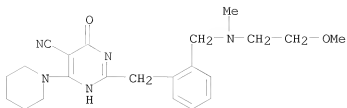
CN 5-Pyrimidinecarbonitrile, 2-[(2,6-dichlorophenyl)methyl]-1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-6-oxo- (CA INDEX NAME)

Absolute stereochemistry.



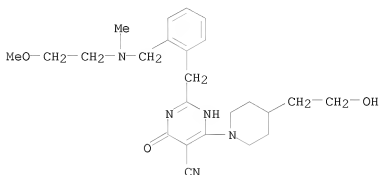
RN 860814-53-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-[[2-[(2-methoxyethyl)methylamino]methyl]phenyl]methyl]-6-oxo-4-(1-piperidinyl)- (CA INDEX NAME)



RN 860814-54-6 CAPLUS

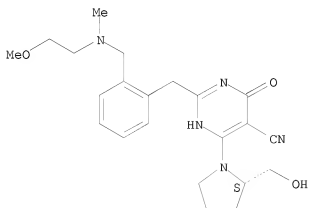
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[4-(2-hydroxyethyl)-1-piperidinyl]-2-[[2-[[2-methoxyethyl)methylamino]methyl]phenyl]methyl]-6-oxo- (CA INDEX NAME)



RN 860814-55-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-2-[[2-[[2-methoxyethyl)methylamino]methyl]phenyl]methyl]-6-oxo- (CA INDEX NAME)

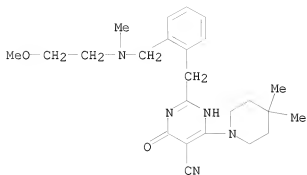
Absolute stereochemistry.



RN 860814-56-8 CAPLUS

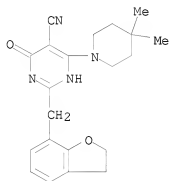
CN 5-Pyrimidinecarbonitrile, 4-(4,4-dimethyl-1-piperidinyl)-1,6-dihydro-2-[[2-[[2-methoxyethyl)methylamino]methyl]phenyl]methyl]-6-oxo- (CA INDEX NAME)

NAME)



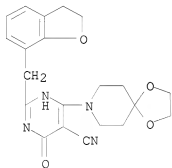
RN 860814-57-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(2,3-dihydro-7-benzofuranyl)methyl]-4-(4,4-dimethyl-1-piperidiny)-1,6-dihydro-6-oxo- (CA INDEX NAME)



RN 860814-58-0 CAPLUS

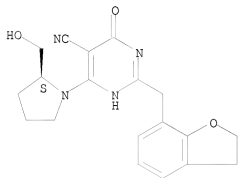
CN 5-Pyrimidinecarbonitrile, 2-[(2,3-dihydro-7-benzofuranyl)methyl]-4-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-1,6-dihydro-6-oxo- (CA INDEX NAME)



RN 860814-59-1 CAPLUS

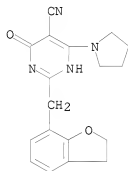
CN 5-Pyrimidinecarbonitrile, 2-[(2,3-dihydro-7-benzofuranyl)methyl]-1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-6-oxo- (CA INDEX NAME)

Absolute stereochemistry.



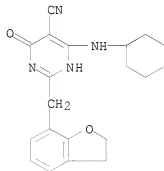
RN 860814-60-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(2,3-dihydro-7-benzofuranyl)methyl]-1,6-dihydro-6-oxo-4-(1-pyrrolidinyl)- (CA INDEX NAME)



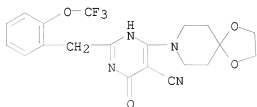
RN 860814-61-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(cyclohexylamino)-2-[(2,3-dihydro-7-benzofuranyl)methyl]-1,6-dihydro-6-oxo- (CA INDEX NAME)



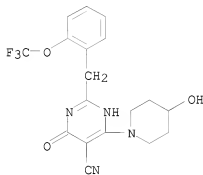
RN 860814-62-6 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-1,6-dihydro-6-oxo-2-[[2-(trifluoromethoxy)phenyl]methyl]- (CA INDEX NAME)



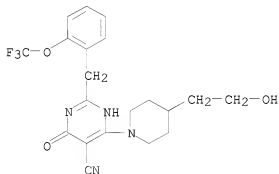
RN 860814-63-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-(4-hydroxy-1-piperidinyl)-6-oxo-2-[[2-(trifluoromethoxy)phenyl]methyl]- (CA INDEX NAME)



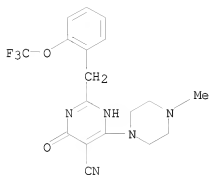
RN 860814-64-8 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[4-(2-hydroxyethyl)-1-piperidinyl]-6-oxo-2-[[2-(trifluoromethoxy)phenyl]methyl]- (CA INDEX NAME)



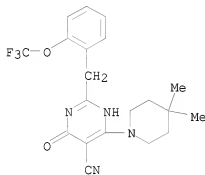
RN 860814-65-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-(4-methyl-1-piperazinyl)-6-oxo-2-[[2-(trifluoromethoxy)phenyl]methyl]- (CA INDEX NAME)



RN 860814-66-0 CAPLUS

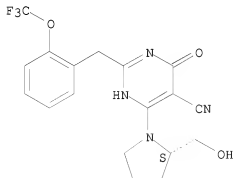
CN 5-Pyrimidinecarbonitrile, 4-(4,4-dimethyl-1-piperidinyl)-1,6-dihydro-6-oxo-2-[[2-(trifluoromethoxy)phenyl]methyl]- (CA INDEX NAME)



RN 860814-67-1 CAPLUS

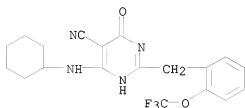
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-6-oxo-2-[[2-(trifluoromethoxy)phenyl]methyl]- (CA INDEX NAME)

Absolute stereochemistry.



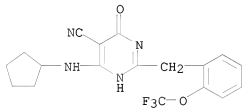
RN 860814-68-2 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(cyclohexylamino)-1,6-dihydro-6-oxo-2-[[2-(trifluoromethoxy)phenyl]methyl]- (CA INDEX NAME)



RN 860814-69-3 CAPLUS

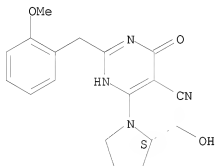
CN 5-Pyrimidinecarbonitrile, 4-(cyclopentylamino)-1,6-dihydro-6-oxo-2-[[2-(trifluoromethoxy)phenyl]methyl]- (CA INDEX NAME)



RN 860814-70-6 CAPLUS

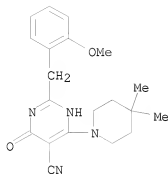
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-2-[(2-methoxyphenyl)methyl]-6-oxo- (CA INDEX NAME)

Absolute stereochemistry.



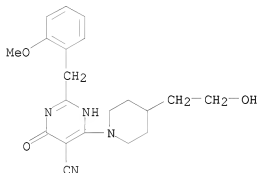
RN 860814-71-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(4,4-dimethyl-1-piperidinyl)-1,6-dihydro-2-[(2-methoxyphenyl)methyl]-6-oxo- (CA INDEX NAME)



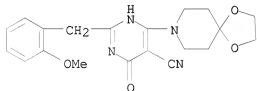
RN 860814-72-8 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(2-hydroxyethyl)-1-piperidinyl]-2-[(2-methoxyphenyl)methyl]-6-oxo- (CA INDEX NAME)



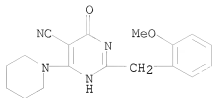
RN 860814-73-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-1,6-dihydro-2-[(2-methoxyphenyl)methyl]-6-oxo- (CA INDEX NAME)



RN 860814-74-0 CAPLUS

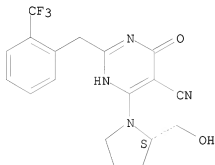
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-[(2-methoxyphenyl)methyl]-6-oxo-4-(1-piperidinyl)- (CA INDEX NAME)



RN 860814-76-2 CAPLUS

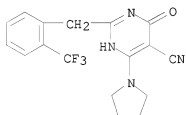
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-6-oxo-2-[[2-(trifluoromethyl)phenyl]methyl]- (CA INDEX NAME)

Absolute stereochemistry.



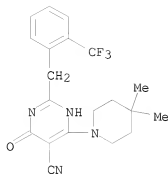
RN 860814-77-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-4-(1-pyrrolidinyl)-2-[[2-(trifluoromethyl)phenyl]methyl]- (CA INDEX NAME)



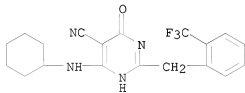
RN 860814-78-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(4,4-dimethyl-1-piperidinyl)-1,6-dihydro-6-oxo-2-[[2-(trifluoromethyl)phenyl]methyl]- (CA INDEX NAME)



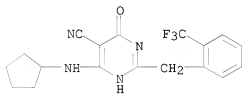
RN 860814-79-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(cyclohexylamino)-1,6-dihydro-6-oxo-2-[[2-(trifluoromethyl)phenyl]methyl]- (CA INDEX NAME)



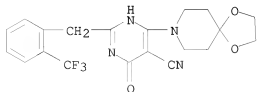
RN 860814-80-8 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(cyclopentylamino)-1,6-dihydro-6-oxo-2-[[2-(trifluoromethyl)phenyl]methyl]- (CA INDEX NAME)



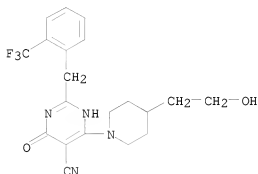
RN 860814-81-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-1,6-dihydro-6-oxo-2-[[2-(trifluoromethyl)phenyl]methyl]- (CA INDEX NAME)



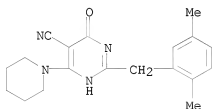
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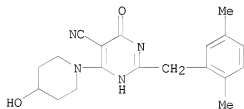
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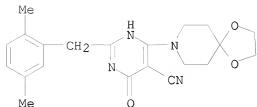
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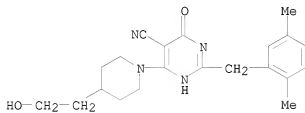
RN 860814-85-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(2,5-dimethylphenyl)methyl]-4-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-1,6-dihydro-6-oxo- (CA INDEX NAME)



RN 860814-86-4 CAPLUS

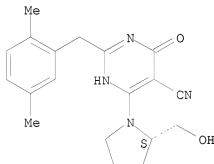
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RN 860814-87-5 CAPLUS

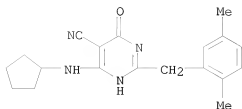
CN 5-Pyrimidinecarbonitrile, 2-[(2,5-dimethylphenyl)methyl]-1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-6-oxo- (CA INDEX NAME)

Absolute stereochemistry.



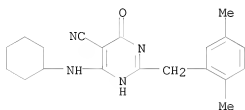
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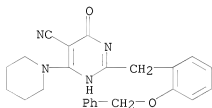
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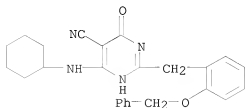
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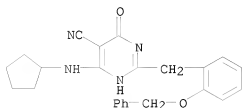
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RN 860814-92-2 CAPLUS

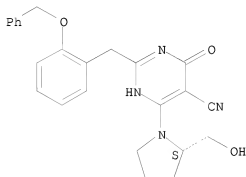
CN 5-Pyrimidinecarbonitrile, 4-(cyclopentylamino)-1,6-dihydro-6-oxo-2-[[2-(phenylmethoxy)phenyl]methyl]- (CA INDEX NAME)



RN 860814-93-3 CAPLUS

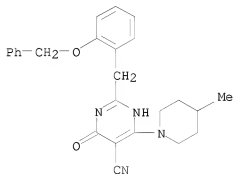
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-6-oxo-2-[[2-(phenylmethoxy)phenyl]methyl]- (CA INDEX NAME)

Absolute stereochemistry.



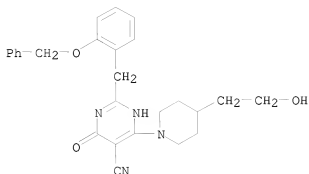
RN 860814-94-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-(4-methyl-1-piperidinyl)-6-oxo-2-[[2-(phenylmethoxy)phenyl]methyl]- (CA INDEX NAME)



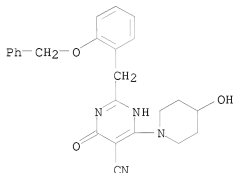
RN 860814-95-5 CAPLUS

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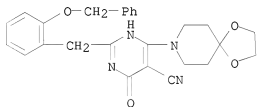
RN 860814-96-6 CAPLUS

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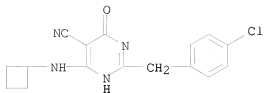
RN 860814-97-7 CAPLUS

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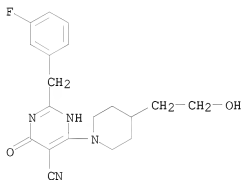
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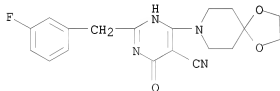
RN 916220-36-5 CAPLUS

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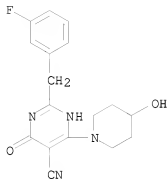
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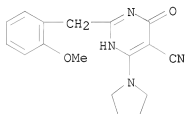
RN 916220-38-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(3-fluorophenyl)methyl]-1,6-dihydro-4-(4-hydroxy-1-piperidiny)-6-oxo- (CA INDEX NAME)



RN 916220-44-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-[(2-methoxyphenyl)methyl]-6-oxo-4-(1-pyrrolidinyl)- (CA INDEX NAME)



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
 RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2005:673271 CAPLUS
 DN 143:172887
 TI Preparation of 6-amino-5-cyano-pyrimidine-4-ones as phosphodiesterase 9A
 inhibitors for improving perception
 IN Hendrix, Martin; Baerfacker, Lars; Heckroth, Heike; Karthaus, Dagmar;
 Tersteegen, Adrian
 PA Bayer Healthcare A.-G., Germany
 SO PCT Int. Appl., 102 pp.
 CODEN: PIXXD2
 DT Patent Applicant's
 LA German
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005068436	A1	20050728	WO 2004-EP14872	20041231
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DE 102004001873	A1	20050929	DE 2004-102004001873	20040114
AU 2004313696	A1	20050728	AU 2004-313696	20041231
CA 2553200	A1	20050728	CA 2004-2553200	20041231
EP 1709009	A1	20061011	EP 2004-804457	20041231
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CN 1926117	A	20070307	CN 2004-80042444	20041231
BR 2004018407	A	20070515	BR 2004-18407	20041231
JP 2007518726	T	20070712	JP 2006-548184	20041231
MX 2006007982	A	20061019	MX 2006-7982	20060712
IN 2006DN04026	A	20070817	IN 2006-DN04026	20060713
ZA 2006005781	A	20080227	ZA 2006-5781	20060713
KR 2007015372	A	20070202	KR 2006-716336	20060814
US 20080255118	A1	20081016	US 2007-586501	20070914
PRAI DE 2004-102004001873	A	20040114		
WO 2004-EP14872	W	20041231		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 143:172887

AB Title compds. I [A = Ph, heteroaryl, etc.; R1 = (un)substituted cycloalkyl, alkyl, benzyl, etc.; R2 = H, R1 and R2 together with the N-atom to form a 5- or 6-membered heterocyclic ring] and their pharmaceutically acceptable salts were prepared. For example, condensation of piperidine and methylsulfonylpyrimidine II afforded cyanopyrimidinone III in 38% yield. In phosphodiesterase 9A (PDE9A) inhibition assays, 2-examples of compds. I exhibited IC50 values of 5 and 15 nM.

IT 860813-32-7P	860813-33-8P	860813-34-9P
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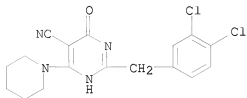
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of aminocyanopyrimidinones as phosphodiesterase 9A inhibitors for improving perception)

RN 860813-32-7 CAPLUS

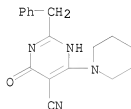
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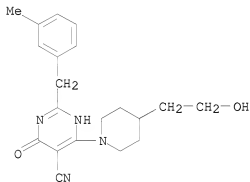
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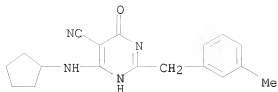
RN 860813-34-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[4-(2-hydroxyethyl)-1-piperidinyl]-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



RN 860813-35-0 CAPLUS

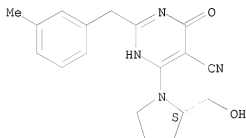
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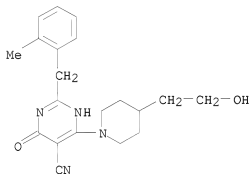
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)

Absolute stereochemistry.



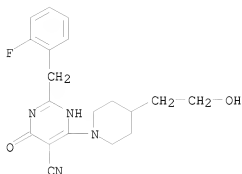
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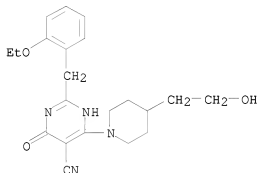
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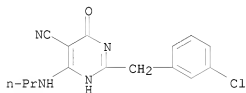
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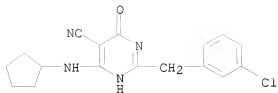
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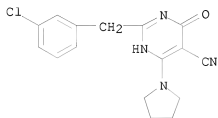
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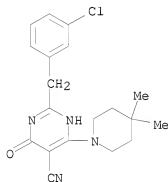
RN 860813-42-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(3-chlorophenyl)methyl]-1,6-dihydro-6-oxo-4-(1-pyrrolidinyl)- (CA INDEX NAME)



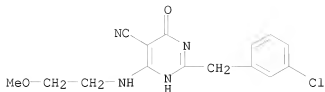
RN 860813-43-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(3-chlorophenyl)methyl]-4-(4,4-dimethyl-1-piperidinyl)-1,6-dihydro-6-oxo- (CA INDEX NAME)



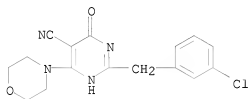
RN 860813-44-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(3-chlorophenyl)methyl]-1,6-dihydro-4-[(2-methoxyethyl)amino]-6-oxo- (CA INDEX NAME)



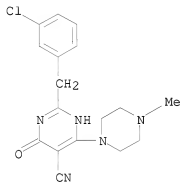
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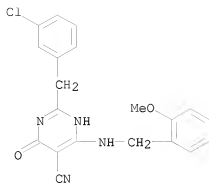
RN 860813-46-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(3-chlorophenyl)methyl]-1,6-dihydro-4-(4-methyl-1-piperazinyl)-6-oxo- (CA INDEX NAME)



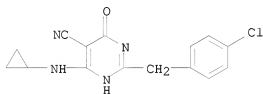
RN 860813-47-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(3-chlorophenyl)methyl]-1,6-dihydro-4-[(2-methoxyphenyl)methyl]amino]-6-oxo- (CA INDEX NAME)



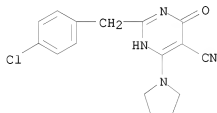
RN 860813-48-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(4-chlorophenyl)methyl]-4-(cyclopropylamino)-1,6-dihydro-6-oxo- (CA INDEX NAME)



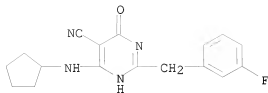
RN 860813-49-6 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(4-chlorophenyl)methyl]-1,6-dihydro-6-oxo-4-(1-pyrrolidinyl)- (CA INDEX NAME)



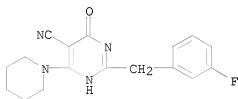
RN 860813-50-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(cyclopentylamino)-2-[(3-fluorophenyl)methyl]-1,6-dihydro-6-oxo- (CA INDEX NAME)



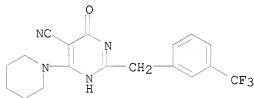
RN 860813-51-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(3-fluorophenyl)methyl]-1,6-dihydro-6-oxo-4-(1-piperidinyl)- (CA INDEX NAME)



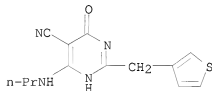
RN 860813-52-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-4-(1-piperidinyl)-2-[[3-(trifluoromethyl)phenyl]methyl]- (CA INDEX NAME)



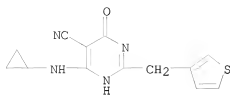
RN 860813-53-2 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-4-(propylamino)-2-(3-thienylmethyl)- (CA INDEX NAME)



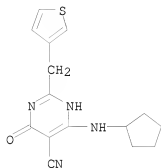
RN 860813-54-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(cyclopropylamino)-1,6-dihydro-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



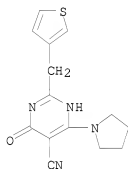
RN 860813-55-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(cyclopentylamino)-1,6-dihydro-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



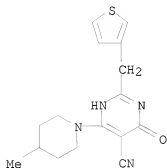
RN 860813-56-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-4-(1-pyrrolidinyl)-2-(3-thienylmethyl)- (CA INDEX NAME)



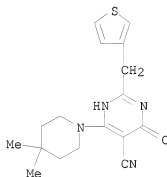
RN 860813-57-6 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-(4-methyl-1-piperidiny)-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



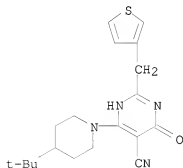
RN 860813-58-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(4,4-dimethyl-1-piperidinyl)-1,6-dihydro-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



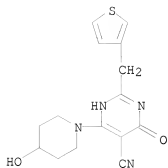
RN 860813-59-8 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-[4-(1,1-dimethylethyl)-1-piperidinyl]-1,6-dihydro-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



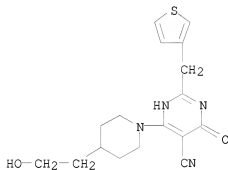
RN 860813-60-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-(4-hydroxy-1-piperidinyl)-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



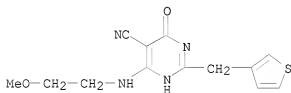
RN 860813-61-2 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[4-(2-hydroxyethyl)-1-piperidinyl]-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



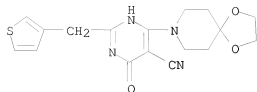
RN 860813-62-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(2-methoxyethyl)amino]-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



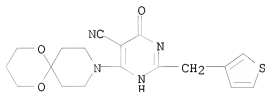
RN 860813-63-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-1,6-dihydro-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



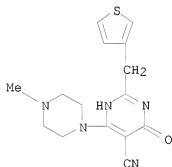
RN 860813-64-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(1,5-dioxo-9-azaspiro[5.5]undec-9-yl)-1,6-dihydro-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



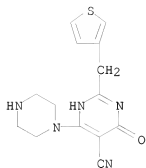
RN 860813-65-6 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-(4-methyl-1-piperazinyl)-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



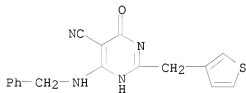
RN 860813-66-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-4-(1-piperazinyl)-2-(3-thienylmethyl)- (CA INDEX NAME)



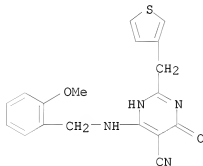
RN 860813-67-8 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-4-[(phenylmethyl)amino]-2-(3-thienylmethyl)- (CA INDEX NAME)



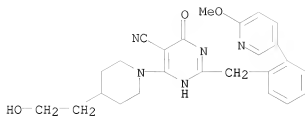
RN 860813-68-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(2-methoxyphenyl)methyl]amino]-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



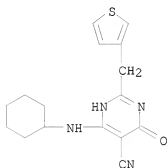
RN 860813-69-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[4-(2-hydroxyethyl)-1-piperidinyl]-2-[2-(6-methoxy-3-pyridinyl)phenylmethyl]-6-oxo- (CA INDEX NAME)



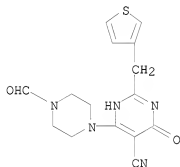
RN 860813-70-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(cyclohexylamino)-1,6-dihydro-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



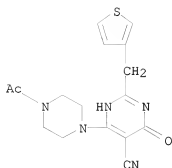
RN 860813-71-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(4-formyl-1-piperazinyl)-1,6-dihydro-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



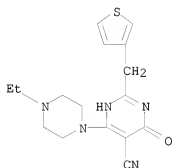
RN 860813-72-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(4-acetyl-1-piperazinyl)-1,6-dihydro-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



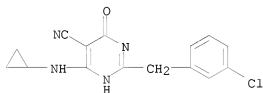
RN 860813-73-6 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(4-ethyl-1-piperazinyl)-1,6-dihydro-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



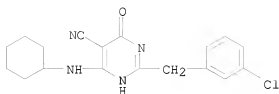
RN 860813-74-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(3-chlorophenyl)methyl]-4-(cyclopropylamino)-1,6-dihydro-6-oxo- (CA INDEX NAME)



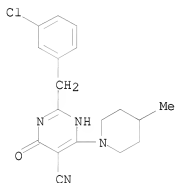
RN 860813-75-8 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(3-chlorophenyl)methyl]-4-(cyclohexylamino)-1,6-dihydro-6-oxo- (CA INDEX NAME)



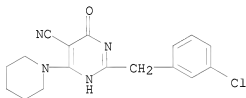
RN 860813-76-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(3-chlorophenyl)methyl]-1,6-dihydro-4-(4-methyl-1-piperidiny)-6-oxo- (CA INDEX NAME)



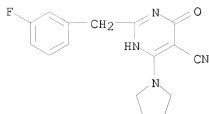
RN 860813-77-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(3-chlorophenyl)methyl]-1,6-dihydro-6-oxo-4-(1-piperidiny)- (CA INDEX NAME)



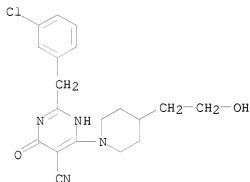
RN 860813-78-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(3-fluorophenyl)methyl]-1,6-dihydro-6-oxo-4-(1-pyrrolidiny)- (CA INDEX NAME)



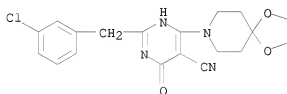
RN 860813-79-2 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(3-chlorophenyl)methyl]-1,6-dihydro-4-[4-(2-hydroxyethyl)-1-piperidinyl]-6-oxo- (CA INDEX NAME)



RN 860813-80-5 CAPLUS

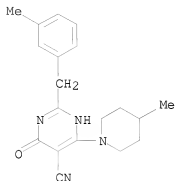
CN 5-Pyrimidinecarbonitrile, 2-[(3-chlorophenyl)methyl]-4-(1,4-dioxaspiro[4.5]dec-8-yl)-1,6-dihydro-6-oxo- (CA INDEX NAME)



RN 860813-81-6 CAPLUS

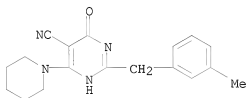
CN 5-Pyrimidinecarbonitrile, 2-[(3-chlorophenyl)methyl]-1,6-dihydro-4-(4-hydroxy-1-piperidinyl)-6-oxo- (CA INDEX NAME)

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-[(3-methylphenyl)methyl]-4-(4-methyl-1-piperidinyl)-6-oxo- (CA INDEX NAME)



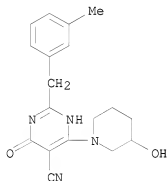
RN 860813-85-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-[(3-methylphenyl)methyl]-6-oxo-4-(1-piperidinyl)- (CA INDEX NAME)



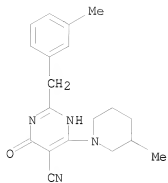
RN 860813-86-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-(3-hydroxy-1-piperidinyl)-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



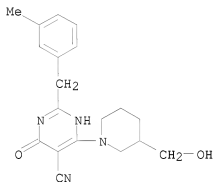
RN 860813-87-2 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-[(3-methylphenyl)methyl]-4-(3-methyl-1-piperidinyl)-6-oxo- (CA INDEX NAME)



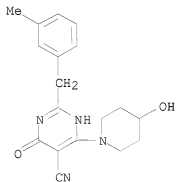
RN 860813-88-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[3-(hydroxymethyl)-1-piperidinyl]-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



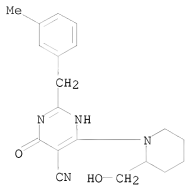
RN 860813-89-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-(4-hydroxy-1-piperidinyl)-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



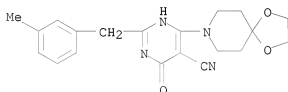
RN 860813-90-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[2-(hydroxymethyl)-1-piperidinyl]-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



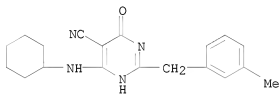
RN 860813-91-8 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-1,6-dihydro-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



RN 860813-92-9 CAPLUS

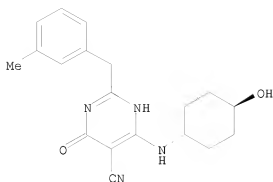
CN 5-Pyrimidinecarbonitrile, 4-(cyclohexylamino)-1,6-dihydro-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



RN 860813-93-0 CAPLUS

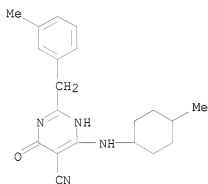
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(trans-4-hydroxycyclohexyl)amino]-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)

Relative stereochemistry.



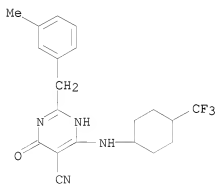
RN 860813-94-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(4-methylcyclohexyl)amino]-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



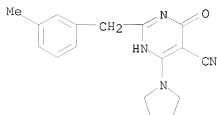
RN 860813-95-2 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-[(3-methylphenyl)methyl]-6-oxo-4-[[4-(trifluoromethyl)cyclohexyl]amino]- (CA INDEX NAME)



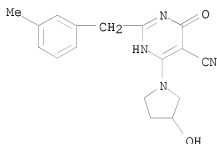
RN 860813-96-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-[(3-methylphenyl)methyl]-6-oxo-4-(1-pyrrolidinyl)- (CA INDEX NAME)



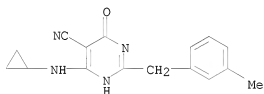
RN 860813-97-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-(3-hydroxy-1-pyrrolidinyl)-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



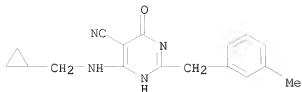
RN 860813-98-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(cyclopropylamino)-1,6-dihydro-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



RN 860813-99-6 CAPLUS

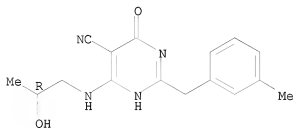
CN 5-Pyrimidinecarbonitrile, 4-[(cyclopropylmethyl)amino]-1,6-dihydro-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



RN 860814-00-2 CAPLUS

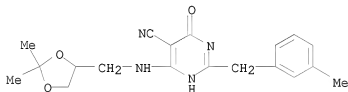
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[[(2R)-2-hydroxypropyl]amino]-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)

Absolute stereochemistry.



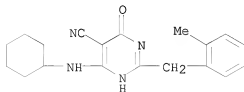
RN 860814-01-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-[[(2,2-dimethyl-1,3-dioxolan-4-yl)methyl]amino]-1,6-dihydro-2-[(3-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



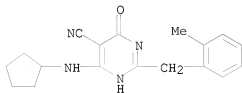
RN 860814-02-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(cyclohexylamino)-1,6-dihydro-2-[(2-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



RN 860814-03-5 CAPLUS

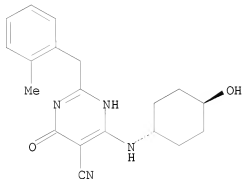
RN 5-Pyrimidinecarbonitrile, 4-(cyclopentylamino)-1,6-dihydro-2-[(2-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



RN 860814-04-6 CAPLUS

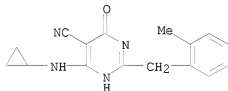
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(trans-4-hydroxycyclohexyl)amino]-2-[(2-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)

Relative stereochemistry.



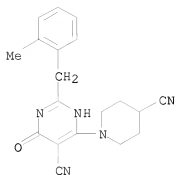
RN 860814-05-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(cyclopropylamino)-1,6-dihydro-2-[(2-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



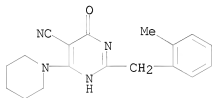
RN 860814-06-8 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(4-cyano-1-piperidinyl)-1,6-dihydro-2-[(2-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



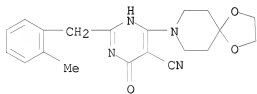
RN 860814-07-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-[(2-methylphenyl)methyl]-6-oxo-4-(1-piperidinyl)- (CA INDEX NAME)



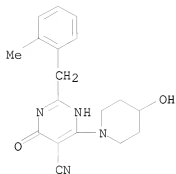
RN 860814-08-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-1,6-dihydro-2-[(2-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



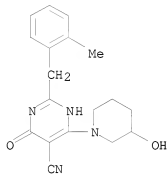
RN 860814-10-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-(4-hydroxy-1-piperidinyl)-2-[(2-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



RN 860814-12-6 CAPLUS

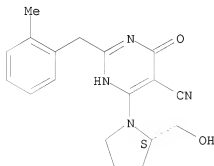
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-(3-hydroxy-1-piperidinyl)-2-[(2-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)



RN 860814-13-7 CAPLUS

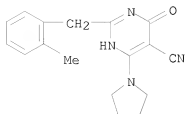
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-2-[(2-methylphenyl)methyl]-6-oxo- (CA INDEX NAME)

Absolute stereochemistry.



RN 860814-14-8 CAPLUS

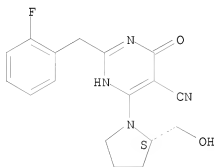
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-[(2-methylphenyl)methyl]-6-oxo-4-(1-pyrrolidinyl)- (CA INDEX NAME)



RN 860814-15-9 CAPLUS

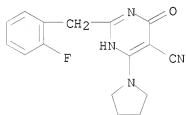
CN 5-Pyrimidinecarbonitrile, 2-[(2-fluorophenyl)methyl]-1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-6-oxo- (CA INDEX NAME)

Absolute stereochemistry.



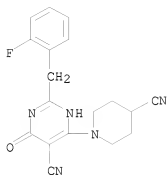
RN 860814-16-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(2-fluorophenyl)methyl]-1,6-dihydro-6-oxo-4-(1-pyrrolidinyl)- (CA INDEX NAME)



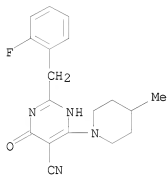
RN 860814-17-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(4-cyano-1-piperidiny)-2-[(2-fluorophenyl)methyl]-1,6-dihydro-6-oxo- (CA INDEX NAME)



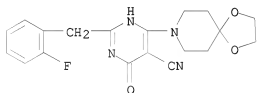
RN 860814-18-2 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(2-fluorophenyl)methyl]-1,6-dihydro-4-(4-methyl-1-piperidiny)-6-oxo- (CA INDEX NAME)



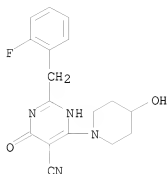
RN 860814-19-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-2-[(2-fluorophenyl)methyl]-1,6-dihydro-6-oxo- (CA INDEX NAME)



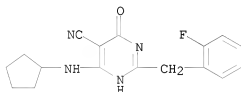
RN 860814-20-6 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(2-fluorophenyl)methyl]-1,6-dihydro-4-(4-hydroxy-1-piperidiny)-6-oxo- (CA INDEX NAME)



RN 860814-21-7 CAPLUS

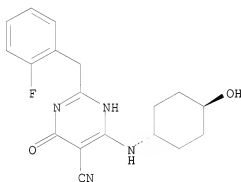
CN 5-Pyrimidinecarbonitrile, 4-(cyclopentylamino)-2-[(2-fluorophenyl)methyl]-1,6-dihydro-6-oxo- (CA INDEX NAME)



RN 860814-22-8 CAPLUS

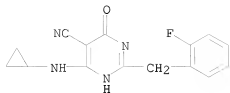
CN 5-Pyrimidinecarbonitrile, 2-[(2-fluorophenyl)methyl]-1,6-dihydro-4-[(trans-4-hydroxycyclohexyl)amino]-6-oxo- (CA INDEX NAME)

Relative stereochemistry.



RN 860814-23-9 CAPLUS

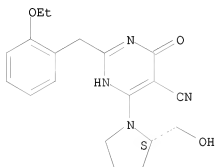
CN 5-Pyrimidinecarbonitrile, 4-(cyclopropylamino)-2-[(2-fluorophenyl)methyl]-1,6-dihydro-6-oxo- (CA INDEX NAME)



RN 860814-24-0 CAPLUS

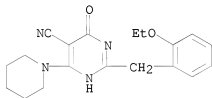
CN 5-Pyrimidinecarbonitrile, 2-[(2-ethoxyphenyl)methyl]-1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-6-oxo- (CA INDEX NAME)

Absolute stereochemistry.



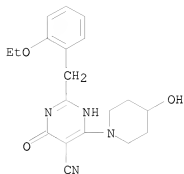
RN 860814-25-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(2-ethoxyphenyl)methyl]-1,6-dihydro-6-oxo-4-(1-piperidinyl)- (CA INDEX NAME)



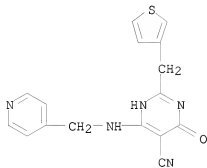
RN 860814-26-2 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(2-ethoxyphenyl)methyl]-1,6-dihydro-4-(4-hydroxy-1-piperidinyl)-6-oxo- (CA INDEX NAME)



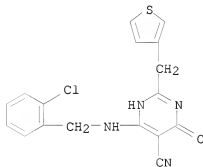
RN 860814-27-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-4-[(4-pyridinylmethyl)amino]-2-(3-thienylmethyl)- (CA INDEX NAME)



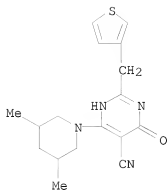
RN 860814-28-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-[[{(2-chlorophenyl)methyl]amino]-1,6-dihydro-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



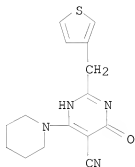
RN 860814-29-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(3,5-dimethyl-1-piperidinyl)-1,6-dihydro-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



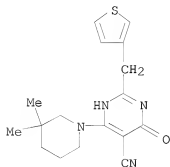
RN 860814-30-8 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-4-(1-piperidinyl)-2-(3-thienylmethyl)- (CA INDEX NAME)



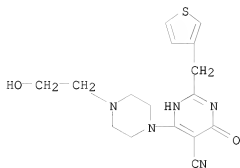
RN 860814-31-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(3,3-dimethyl-1-piperidinyl)-1,6-dihydro-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



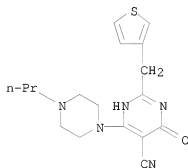
RN 860814-32-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[4-(2-hydroxyethyl)-1-piperazinyl]-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



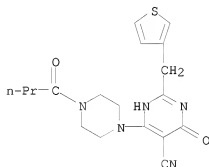
RN 860814-33-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-4-(4-propyl-1-piperazinyl)-2-(3-thienylmethyl)- (CA INDEX NAME)



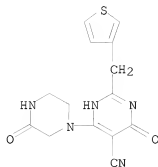
RN 860814-34-2 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-4-[4-(1-oxobutyl)-1-piperazinyl]-2-(3-thienylmethyl)- (CA INDEX NAME)



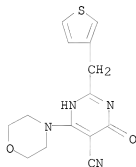
RN 860814-35-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-4-(3-oxo-1-piperazinyl)-2-(3-thienylmethyl)- (CA INDEX NAME)



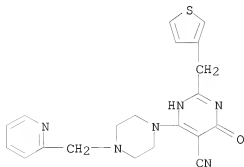
RN 860814-36-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-(4-morpholinyl)-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)



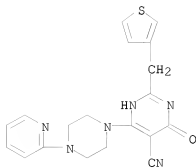
RN 860814-37-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-4-[4-(2-pyridinylmethyl)-1-piperazinyl]-2-(3-thienylmethyl)- (CA INDEX NAME)



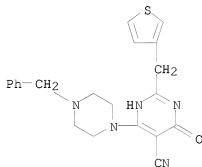
RN 860814-38-6 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-4-[4-(2-pyridinyl)-1-piperazinyl]-2-(3-thienylmethyl)- (CA INDEX NAME)



RN 860814-39-7 CAPLUS

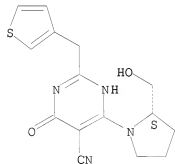
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-4-[(4-(phenylmethyl)-1-piperazinyl)-2-(3-thienylmethyl)]- (CA INDEX NAME)



RN 860814-40-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-6-oxo-2-(3-thienylmethyl)- (CA INDEX NAME)

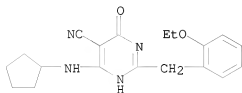
Absolute stereochemistry.



RN 860814-41-1 CAPLUS

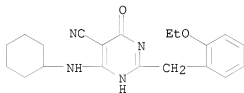
CN 5-Pyrimidinecarbonitrile, 4-(cyclopentylamino)-2-[(2-ethoxyphenyl)methyl]-

1,6-dihydro-6-oxo- (CA INDEX NAME)



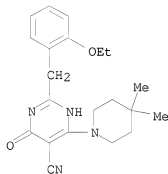
RN 860814-42-2 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(cyclohexylamino)-2-[(2-ethoxyphenyl)methyl]-1,6-dihydro-6-oxo- (CA INDEX NAME)



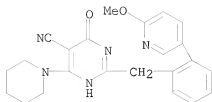
RN 860814-43-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(4,4-dimethyl-1-piperidinyl)-2-[(2-ethoxyphenyl)methyl]-1,6-dihydro-6-oxo- (CA INDEX NAME)



RN 860814-44-4 CAPLUS

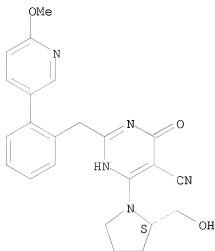
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-[[2-(6-methoxy-3-pyridinyl)phenyl)methyl]-6-oxo-4-(1-piperidinyl)- (CA INDEX NAME)



RN 860814-45-5 CAPLUS

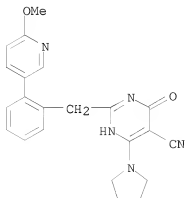
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-2-[[2-(6-methoxy-3-pyridinyl)phenyl]methyl]-6-oxo- (CA INDEX NAME)

Absolute stereochemistry.

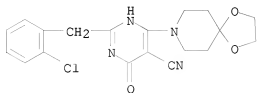


RN 860814-46-6 CAPLUS

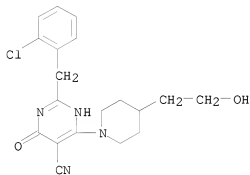
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-[[2-(6-methoxy-3-pyridinyl)phenyl]methyl]-6-oxo-4-(1-pyrrolidinyl)- (CA INDEX NAME)



RN 860814-47-7 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 2-[(2-chlorophenyl)methyl]-4-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-1,6-dihydro-6-oxo- (CA INDEX NAME)

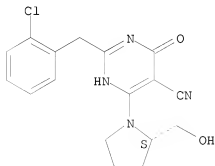


RN 860814-48-8 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 2-[(2-chlorophenyl)methyl]-1,6-dihydro-4-[4-(2-hydroxyethyl)-1-piperidinyl]-6-oxo- (CA INDEX NAME)

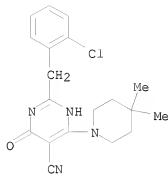


RN 860814-49-9 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 2-[(2-chlorophenyl)methyl]-1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-6-oxo- (CA INDEX NAME)

Absolute stereochemistry.

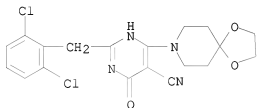


RN 860814-50-2 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 2-[(2-chlorophenyl)methyl]-4-(4,4-dimethyl-1-piperidinyl)-1,6-dihydro-6-oxo- (CA INDEX NAME)



RN 860814-51-3 CAPLUS

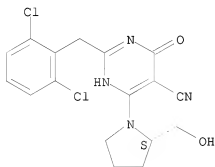
CN 5-Pyrimidinecarbonitrile, 2-[(2,6-dichlorophenyl)methyl]-4-(1,4-dioxaspiro[4.5]dec-8-yl)-1,6-dihydro-6-oxo- (CA INDEX NAME)



RN 860814-52-4 CAPLUS

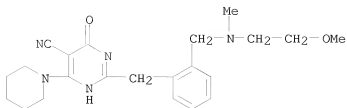
CN 5-Pyrimidinecarbonitrile, 2-[(2,6-dichlorophenyl)methyl]-1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-6-oxo- (CA INDEX NAME)

Absolute stereochemistry.



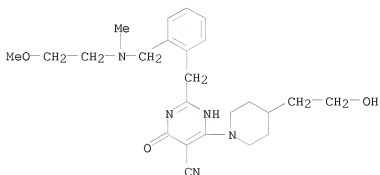
RN 860814-53-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-[[2-[(2-methoxyethyl)methylamino]methyl]phenyl]methyl]-6-oxo-4-(1-piperidinyl)- (CA INDEX NAME)



RN 860814-54-6 CAPLUS

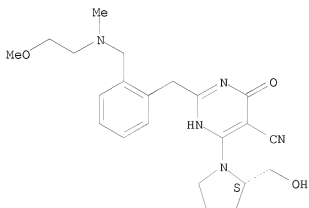
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[4-(2-hydroxyethyl)-1-piperidinyl]-2-[[2-[[[(2-methoxyethyl)methylamino]methyl]phenyl]methyl]-6-oxo- (CA INDEX NAME)



RN 860814-55-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-2-[[2-[[[(2-methoxyethyl)methylamino]methyl]phenyl]methyl]-6-oxo- (CA INDEX NAME)

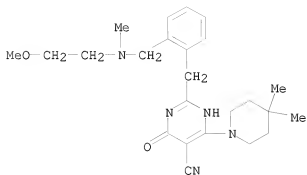
Absolute stereochemistry.



RN 860814-56-8 CAPLUS

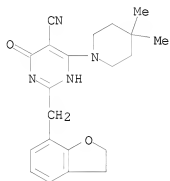
CN 5-Pyrimidinecarbonitrile, 4-(4,4-dimethyl-1-piperidinyl)-1,6-dihydro-2-[[2-[[[(2-methoxyethyl)methylamino]methyl]phenyl]methyl]-6-oxo- (CA INDEX NAME)

NAME)



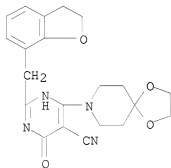
RN 860814-57-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(2,3-dihydro-7-benzofuranyl)methyl]-4-(4,4-dimethyl-1-piperidiny)-1,6-dihydro-6-oxo- (CA INDEX NAME)



RN 860814-58-0 CAPLUS

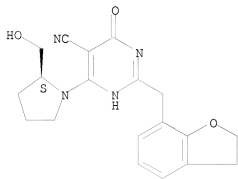
CN 5-Pyrimidinecarbonitrile, 2-[(2,3-dihydro-7-benzofuranyl)methyl]-4-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-1,6-dihydro-6-oxo- (CA INDEX NAME)



RN 860814-59-1 CAPLUS

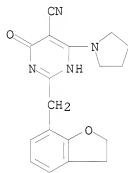
CN 5-Pyrimidinecarbonitrile, 2-[(2,3-dihydro-7-benzofuranyl)methyl]-1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-6-oxo- (CA INDEX NAME)

Absolute stereochemistry.



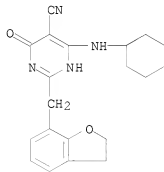
RN 860814-60-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-[(2,3-dihydro-7-benzofuranyl)methyl]-1,6-dihydro-6-oxo-4-(1-pyrrolidinyl)- (CA INDEX NAME)



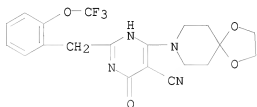
RN 860814-61-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(cyclohexylamino)-2-[(2,3-dihydro-7-benzofuranyl)methyl]-1,6-dihydro-6-oxo- (CA INDEX NAME)



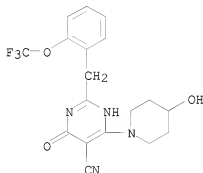
RN 860814-62-6 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-1,6-dihydro-6-oxo-2-[[2-(trifluoromethoxy)phenyl]methyl]- (CA INDEX NAME)



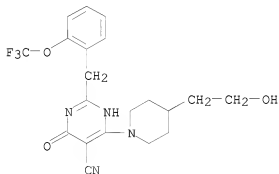
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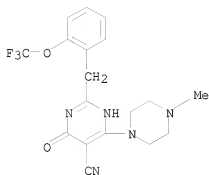
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CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[4-(2-hydroxyethyl)-1-piperidinyl]-6-oxo-2-[[2-(trifluoromethoxy)phenyl]methyl]- (CA INDEX NAME)



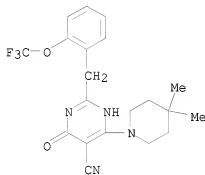
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CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-(4-methyl-1-piperazinyl)-6-oxo-2-[[2-(trifluoromethoxy)phenyl]methyl]- (CA INDEX NAME)



RN 860814-66-0 CAPLUS

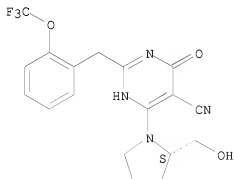
CN 5-Pyrimidinecarbonitrile, 4-(4,4-dimethyl-1-piperidinyl)-1,6-dihydro-6-oxo-2-[[2-(trifluoromethoxy)phenyl]methyl]- (CA INDEX NAME)



RN 860814-67-1 CAPLUS

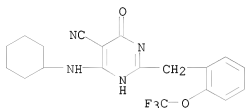
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-6-oxo-2-[[2-(trifluoromethoxy)phenyl]methyl]- (CA INDEX NAME)

Absolute stereochemistry.



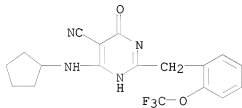
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CN 5-Pyrimidinecarbonitrile, 4-(cyclohexylamino)-1,6-dihydro-6-oxo-2-[[2-(trifluoromethoxy)phenyl]methyl]- (CA INDEX NAME)



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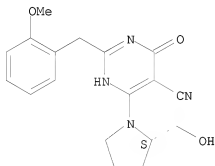
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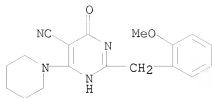
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-2-[(2-methoxyphenyl)methyl]-6-oxo- (CA INDEX NAME)

Absolute stereochemistry.



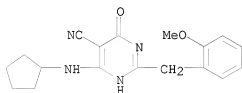
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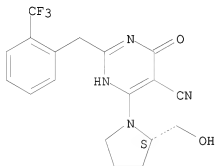
CN 5-Pyrimidinecarbonitrile, 4-(cyclopentylamino)-1,6-dihydro-2-[(2-methoxyphenyl)methyl]-6-oxo- (CA INDEX NAME)



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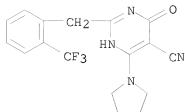
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-6-oxo-2-[[2-(trifluoromethyl)phenyl]methyl]- (CA INDEX NAME)

Absolute stereochemistry.



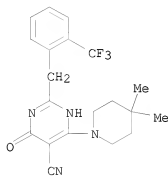
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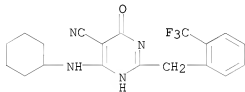
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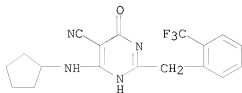
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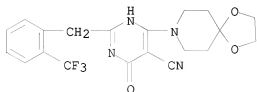
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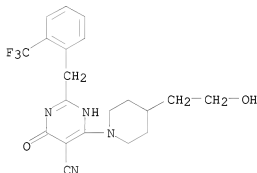
RN 860814-81-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-1,6-dihydro-6-oxo-2-[[2-(trifluoromethyl)phenyl]methyl]- (CA INDEX NAME)



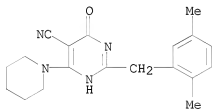
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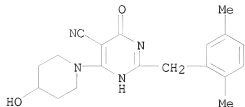
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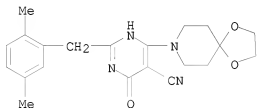
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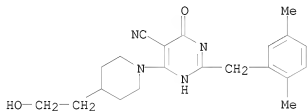
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CN 5-Pyrimidinecarbonitrile, 2-[(2,5-dimethylphenyl)methyl]-4-[(1,4-dioxaspiro[4.5]dec-8-yl)-1,6-dihydro-6-oxo- (CA INDEX NAME)



RN 860814-86-4 CAPLUS

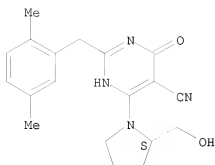
CN 5-Pyrimidinecarbonitrile, 2-[(2,5-dimethylphenyl)methyl]-1,6-dihydro-4-[4-(2-hydroxyethyl)-1-piperidinyl]-6-oxo- (CA INDEX NAME)



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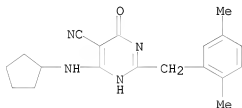
CN 5-Pyrimidinecarbonitrile, 2-[(2,5-dimethylphenyl)methyl]-1,6-dihydro-4-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-6-oxo- (CA INDEX NAME)

Absolute stereochemistry.



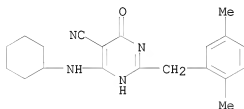
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CN 5-Pyrimidinecarbonitrile, 4-(cyclopentylamino)-2-[(2,5-dimethylphenyl)methyl]-1,6-dihydro-6-oxo- (CA INDEX NAME)



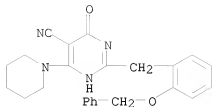
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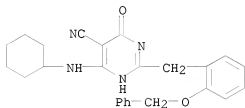
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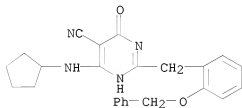
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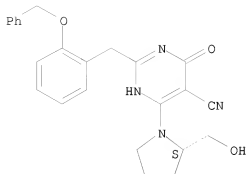
CN 5-Pyrimidinecarbonitrile, 4-(cyclopentylamino)-1,6-dihydro-6-oxo-2-[[2-(phenylmethoxy)phenyl]methyl]- (CA INDEX NAME)



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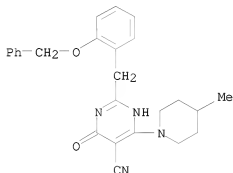
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-((2S)-2-(hydroxymethyl)-1-pyrrolidinyl)-6-oxo-2-[[2-(phenylmethoxy)phenyl]methyl]- (CA INDEX NAME)

Absolute stereochemistry.



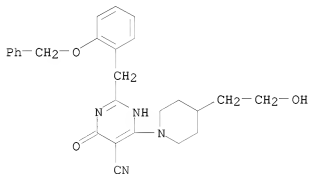
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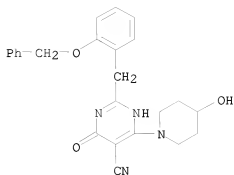
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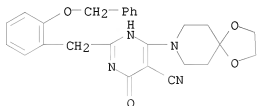
RN 860814-96-6 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-4-(4-hydroxy-1-piperidiny)-6-oxo-2-[[2-(phenylmethoxy)phenyl]methyl]- (CA INDEX NAME)



RN 860814-97-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-1,6-dihydro-6-oxo-2-[[2-(phenylmethoxy)phenyl]methyl]- (CA INDEX NAME)



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2004:1154682 CAPLUS
 DN 142:93840
 TI Preparation of 6-arylamino-5-cyano-4-pyrimidinones as PDE9A inhibitors for the treatment of Alzheimer's disease
 IN Hendrix, Martin; Baerfacker, Lars; Beyreuther, Bettina; Ebert, Ulrich; Erb, Christina; Hafner, Frank-Thorsten; Heckroth, Heike; Liu, Yan-Hong; Schauss, Dagmar; Tersteegen, Adrian; Van Der Staay, Franz-Josef; Van Kampen, Marja
 PA Bayer Healthcare AG, Germany
 SO PCT Int. Appl., 63 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004113306	A1	20041229	WO 2004-EP6477	20040616
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	AU 2004249392	A1	20041229	AU 2004-249392	20040616
	CA 2530461	A1	20041229	CA 2004-2530461	20040616
	EP 1644339	A1	20060412	EP 2004-739944	20040616
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	JP 2007506662	T	20070322	JP 2006-515952	20040616
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	ZA 2005010319	A	20070328	ZA 2005-10319	20051220
	IN 2005DN05978	A	20091002	IN 2005-DN5978	20051221
	US 20070105881	A1	20070510	US 2006-559954	20060928
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	WO 2004-EP6477	W	20040616		
	US 2006-559954	A1	20060928		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 142:93840

AB Title compds. I [A = (un)substituted alkyl, cycloalkyl, tetrahydrofuryl, etc.; B = (un)substituted Ph, heteroaryl] and their pharmaceutically acceptable salts were prepared For example, condensation-cyclization of 1-cyclopentylacetamide hydrochloride and (methylsulfanyl)propenoate II, e.g., prepared from 4-fluoroaniline and Me

3,3-bis(methylthio)-2-cyanoacrylate, afforded cyanopyrimidinone III in 46% yield. In phosphodiesterase 9A (PDE9A) inhibition assays, 5-examples of compds. I exhibited IC50 values ranging from 52-87 nM, e.g., the IC50 value of cyanopyrimidinone III was 75 nM. Compds. I are claimed to be useful for the treatment of Alzheimer's disease.

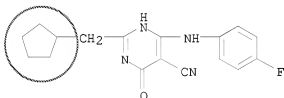
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of arylaminocyanopyrimidinones as PDE9A inhibitors for the treatment of Alzheimer's disease)

RN 816468-96-9 CAPLUS

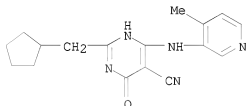
CN 5-Pyrimidinecarbonitrile, 2-(cyclopentylmethyl)-4-[(4-fluorophenyl)amino]-1,6-dihydro-6-oxo- (CA INDEX NAME)



claimed compounds require that A is aryl or heteroaryl

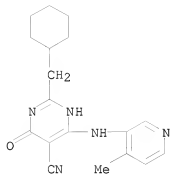
RN 816468-97-0 CAPLUS

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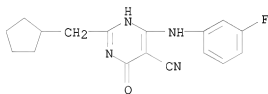
RN 816468-98-1 CAPLUS

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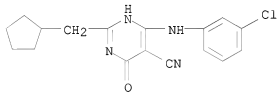
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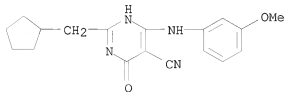
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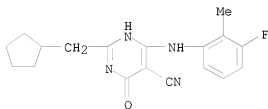
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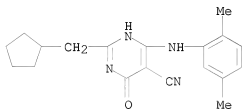
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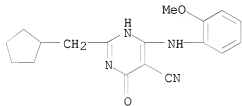
RN 816469-03-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclopentylmethyl)-4-[(2,5-dimethylphenyl)amino]-1,6-dihydro-6-oxo- (CA INDEX NAME)



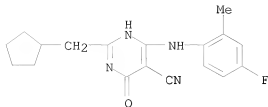
RN 816469-04-2 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclopentylmethyl)-1,6-dihydro-4-[(2-methoxyphenyl)amino]-6-oxo- (CA INDEX NAME)



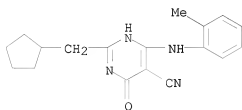
RN 816469-05-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclopentylmethyl)-4-[(4-fluoro-2-methylphenyl)amino]-1,6-dihydro-6-oxo- (CA INDEX NAME)



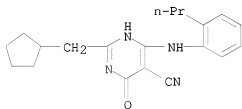
RN 816469-06-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclopentylmethyl)-1,6-dihydro-4-[(2-methylphenyl)amino]-6-oxo- (CA INDEX NAME)



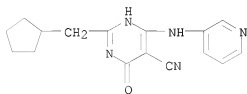
RN 816469-07-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclopentylmethyl)-1,6-dihydro-6-oxo-4-[(2-propylphenyl)amino]- (CA INDEX NAME)



RN 816469-08-6 CAPLUS

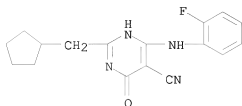
CN 5-Pyrimidinecarbonitrile, 2-(cyclopentylmethyl)-1,6-dihydro-6-oxo-4-(3-pyridinylamino)- (CA INDEX NAME)



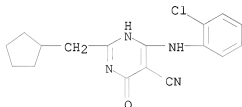
RN 816469-12-2 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclopentylmethyl)-4-[(2-fluorophenyl)amino]-

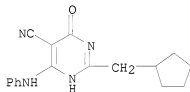
1,6-dihydro-6-oxo- (CA INDEX NAME)



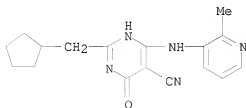
RN 816469-13-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-[(2-chlorophenyl)amino]-2-(cyclopentylmethyl)-
1,6-dihydro-6-oxo- (CA INDEX NAME)

RN 816469-14-4 CAPLUS

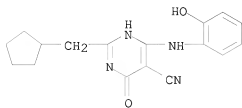
CN 5-Pyrimidinecarbonitrile, 2-(cyclopentylmethyl)-1,6-dihydro-6-oxo-4-
(phenylamino)- (CA INDEX NAME)

RN 816469-15-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclopentylmethyl)-1,6-dihydro-4-[(2-methyl-3-
pyridinyl)amino]-6-oxo- (CA INDEX NAME)

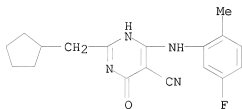
RN 816469-16-6 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclopentylmethyl)-1,6-dihydro-4-[(2-hydroxyphenyl)amino]-6-oxo- (CA INDEX NAME)



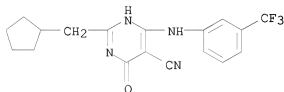
RN 816469-17-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclopentylmethyl)-4-[(5-fluoro-2-methylphenyl)amino]-1,6-dihydro-6-oxo- (CA INDEX NAME)



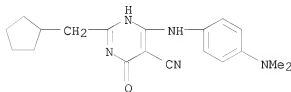
RN 816469-18-8 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclopentylmethyl)-1,6-dihydro-6-oxo-4-[[3-(trifluoromethyl)phenyl]amino]- (CA INDEX NAME)



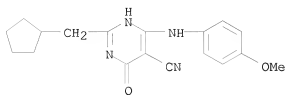
RN 816469-19-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclopentylmethyl)-4-[[4-(dimethylamino)phenyl]amino]-1,6-dihydro-6-oxo- (CA INDEX NAME)



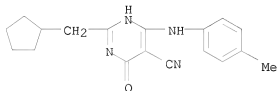
RN 816469-20-2 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclopentylmethyl)-1,6-dihydro-4-[(4-methoxyphenyl)amino]-6-oxo- (CA INDEX NAME)



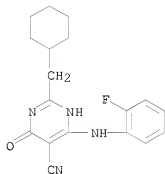
RN 816469-21-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclopentylmethyl)-1,6-dihydro-4-[(4-methylphenyl)amino]-6-oxo- (CA INDEX NAME)



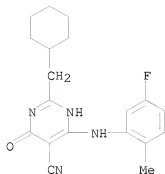
RN 816469-24-6 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclohexylmethyl)-4-[(2-fluorophenyl)amino]-1,6-dihydro-6-oxo- (CA INDEX NAME)



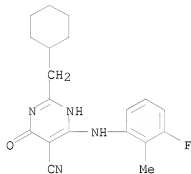
RN 816469-25-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclohexylmethyl)-4-[(5-fluoro-2-methylphenyl)amino]-1,6-dihydro-6-oxo- (CA INDEX NAME)



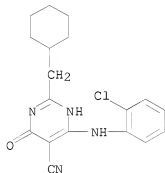
RN 816469-26-8 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclohexylmethyl)-4-[(3-fluoro-2-methylphenyl)amino]-1,6-dihydro-6-oxo- (CA INDEX NAME)



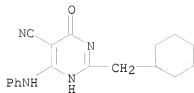
RN 816469-27-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-[(2-chlorophenyl)amino]-2-(cyclohexylmethyl)-1,6-dihydro-6-oxo- (CA INDEX NAME)



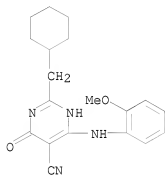
RN 816469-28-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclohexylmethyl)-1,6-dihydro-6-oxo-4-(phenylamino)- (CA INDEX NAME)



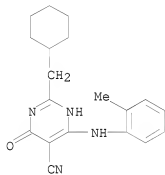
RN 816469-29-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclohexylmethyl)-1,6-dihydro-4-[(2-methoxyphenyl)amino]-6-oxo- (CA INDEX NAME)



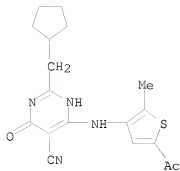
RN 816469-30-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclohexylmethyl)-1,6-dihydro-4-[(2-methylphenyl)amino]-6-oxo- (CA INDEX NAME)



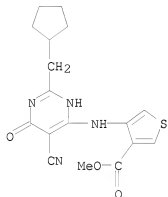
RN 816469-31-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-[(5-acetyl-2-methyl-3-thienyl)amino]-2-(cyclopentylmethyl)-1,6-dihydro-6-oxo- (CA INDEX NAME)



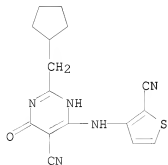
RN 816469-32-6 CAPLUS

CN 3-Thiophenecarboxylic acid, 4-[[5-cyano-2-(cyclopentylmethyl)-1,6-dihydro-6-oxo-4-pyrimidinyl]amino]-, methyl ester (CA INDEX NAME)



RN 816469-33-7 CAPLUS

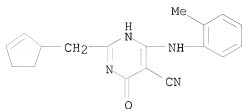
CN 5-Pyrimidinecarbonitrile, 4-[(2-cyano-3-thienyl)amino]-2-(cyclopentylmethyl)-1,6-dihydro-6-oxo- (CA INDEX NAME)



RN 816469-34-8 CAPLUS

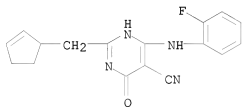
CN 5-Pyrimidinecarbonitrile, 2-(2-cyclopenten-1-ylmethyl)-1,6-dihydro-4-[(2-

methylphenyl)amino]-6-oxo- (CA INDEX NAME)



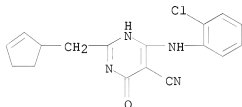
RN 816469-35-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(2-cyclopenten-1-ylmethyl)-4-[(2-fluorophenyl)amino]-1,6-dihydro-6-oxo- (CA INDEX NAME)



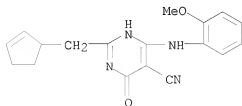
RN 816469-36-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-[(2-chlorophenyl)amino]-2-(2-cyclopenten-1-ylmethyl)-1,6-dihydro-6-oxo- (CA INDEX NAME)



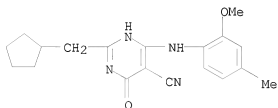
RN 816469-37-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(2-cyclopenten-1-ylmethyl)-1,6-dihydro-4-[(2-methoxyphenyl)amino]-6-oxo- (CA INDEX NAME)



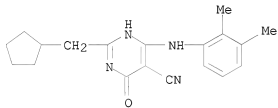
RN 816469-39-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclopentylmethyl)-1,6-dihydro-4-[(2-methoxy-4-methylphenyl)amino]-6-oxo- (CA INDEX NAME)



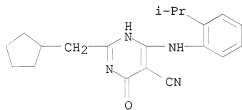
RN 816469-40-6 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclopentylmethyl)-4-[(2,3-dimethylphenyl)amino]-1,6-dihydro-6-oxo- (CA INDEX NAME)



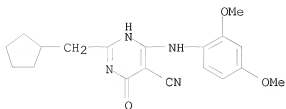
RN 816469-41-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclopentylmethyl)-1,6-dihydro-4-[[2-(1-methylethyl)phenyl]amino]-6-oxo- (CA INDEX NAME)



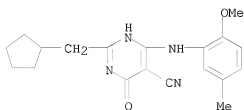
RN 816469-42-8 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclopentylmethyl)-4-[(2,4-dimethoxyphenyl)amino]-1,6-dihydro-6-oxo- (CA INDEX NAME)



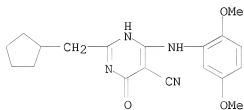
RN 816469-43-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclopentylmethyl)-1,6-dihydro-4-[(2-methoxy-5-methylphenyl)amino]-6-oxo- (CA INDEX NAME)



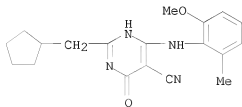
RN 816469-44-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclopentylmethyl)-4-[(2,5-dimethoxyphenyl)amino]-1,6-dihydro-6-oxo- (CA INDEX NAME)



RN 816469-45-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(cyclopentylmethyl)-1,6-dihydro-4-[(2-methoxy-6-methylphenyl)amino]-6-oxo- (CA INDEX NAME)



OSC.G 2

THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

RE.CNT 4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

10/586,501

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1988:150414 CAPLUS

DN 108:150414

OREF 108:24701a,24704a

TI Chemistry and positive inotropic effect of pelrinone and related derivatives. A novel class of 2-methylpyrimidones as inotropic agents

AU Bagli, Jehan; Bogri, T.; Palameta, B.; Rakhit, S.; Peseckis, S.; McQuillan, J.; Lee, D. K. H.

CS Ayerst Lab. Res., Inc., Princeton, NJ, 08543-9990, USA

SO Journal of Medicinal Chemistry (1988), 31(4), 814-23

CODEN: JMCMAR; ISSN: 0022-2623

DT Journal

LA English

OS CASREACT 108:150414

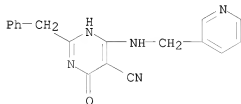
AB Novel pyrimidine derivs. (e.g., I; R = cyano, R1 = 3-pyridylmethyl) were synthesized and evaluated for pos. inotropic activity. Thus, (MeS)2C:C(CN)CO2Me cyclocondensed with MeC(:NH)NH2·HCl to give cyano methyl(methylthio)dihydropyrimidinone II, which was treated with 3-(aminomethyl)pyridine to give 48% I (R = cyano, R1 = 3-pyridylmethyl). Inotropic and chronotropic effects were determined in vitro in cat papillary muscle and right atrium, resp. Selected compds. were then evaluated in vivo in a dog heart failure model. Changes in ventricular dP/dt, heart rate, and blood pressure were monitored. Several of these agents produced relatively minor changes in heart rate. This class of agents demonstrated a varying degree of vasodilator effects concomitant with increases in ventricular contractility. The most potent analogs, I (R = cyano, R1 = 3-pyridylmethyl; R = Br, R1 = Et, 3-pyridylmethyl), were evaluated orally in conscious dogs with implanted Konisberg pressure transducers, and their effect on left ventricular dP/dt was compared with that of milrinone. Mechanistically, the agents of this novel class appear not to mediate their effect either via β -receptors or inhibition of Na⁺/K⁺-ATPase. A major component of their inotropic effect is mediated by the inhibition of cardiac phosphodiesterase (PDE)-Fr. III. This was clearly demonstrated by I. Compound I (R = Br, R1 = 3-pyridylmethyl) was found to be the most potent inhibitor of PDE-Fr. III from among the compds. tested in this assay. The crystal structure of I (R = cyano, 3-pyridylmethyl)·HBF₄ is also reported.

IT 96824-01-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and cardiotonic activity of)

RN 96824-01-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-2-(phenylmethyl)-4-[(3-pyridinylmethyl)amino]- (CA INDEX NAME)



102(b)

OSC.G 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

10/586,501

L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1985:406358 CAPLUS

DN 103:6358

OREF 103:1147a,1150a

TI Amino-pyrimidine derivatives

IN Bagli, Jehan Framoz

FA American Home Products Corp., USA

SO Eur. Pat. Appl., 50 pp.

CODEN: EPXXDW

same as # 4

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 130735	A1	19850109	EP 1984-304158	19840620
	EP 130735	B1	19881102		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	US 4505910	A	19850319	US 1983-509886	19830630
	US 4507304	A	19850326	US 1983-509887	19830630
	ZA 8404476	A	19860226	ZA 1984-4476	19840613
	AT 38328	T	19881115	AT 1984-304158	19840620
	AU 8429710	A	19850103	AU 1984-29710	19840621
	AU 572856	B2	19880519		
	HU 34465	A2	19850328	HU 1984-2441	19840622
	HU 193581	B	19871028		
	DK 8403090	A	19841231	DK 1984-3090	19840625
	JP 60025974	A	19850208	JP 1984-131827	19840625
	CA 1232905	A1	19880216	CA 1984-457551	19840627
	CA 1248104	A2	19890103	CA 1986-505828	19860403
PRAI	US 1983-509886	A	19830630		
	US 1983-509887	A	19830630		
	EP 1984-304158	A	19840620		
	CA 1984-457551	A3	19840627		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 103:6358

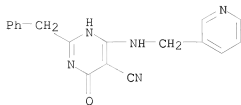
AB Title derivs. I [X = O, S, NH; R = alkyl, cycloalkyl, phenylalkyl, CF₃; R₁ = CN, CONH₂, NO₂, SO₂Me, SO₂NH₂; R₂, R₃, R₄, R₅, R₆ = H, alkyl; R₇ = H, alkenyl, piperidino, 1-pyrrolidinyl, 1-piperazinyl, furyl, indolyl, thienyl, etc.; m, n = 0, 1, 2] were prepared as cardiotonic agents. Thus, the cyclocondensation of MeC(:NH)NH₂.HCl with (MeS)2C:C(CN)CO₂Me in DMF containing NaH gave pyrimidine II, which was treated with 3-(aminomethyl)pyridine to give aminopyrimidine III. III at 10⁻⁴ M increased contractility by 98% in isolated cat papillary muscle.

IT 96824-01-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 96824-01-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-6-oxo-2-(phenylmethyl)-4-[(3-pyridinylmethyl)amino]- (CA INDEX NAME)



OSC.G 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)

10/586,501

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=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

42.55

236.27

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-4.25

-4.25

STN INTERNATIONAL LOGOFF AT 17:22:31 ON 11 APR 2010